

CLAIMS

What is claimed is:

1. A secondary for an electric linear motor, comprising:
a carrier including electrically and/or magnetic driving elements;
a cover for shielding the carrier; and
a support unit supporting the cover for movement relative to the carrier.
2. The secondary of claim 1, wherein the cover is a flexible band.
3. The secondary of claim 2, wherein the support unit includes at least two deflection members, said cover being trained over the deflection members.
4. The secondary of claim 3, wherein each of the deflection members is a drum.
5. The secondary of claim 3, wherein each of the deflection members is a roller.
6. The secondary of claim 2, wherein the band is a continuous band in surrounding relationship to the carrier.

7. The secondary of claim 3, and further comprising a drive member operatively connected to at least one of the deflection members for moving the cover.
8. The secondary of claim 5, and further comprising a wiper element sweeping across a surface of the continuous band.
9. A linear motor, comprising:
a rotor as primary; and
a secondary spaced from the rotor to define an air gap therebetween for interaction between the rotor and the secondary, said secondary including a carrier with electrically and/or magnetic driving elements, a cover for shielding the carrier, and a support unit supporting the cover for movement relative to the carrier.
10. The linear motor of claim 9, wherein the cover is a flexible continuous band, said support unit including at least two deflection members for guiding the continuous band.
11. The linear motor of claim 10, wherein the deflection members are disposed in relation to a movement direction of the rotor to a side of the carrier.

12. The linear motor of claim 10, wherein the deflection members are disposed in relation to a movement direction of the rotor on both ends of the carrier.
13. The linear motor of claim 10, wherein the band is secured to the rotor.
14. The linear motor of claim 9, wherein the cover is a flexible continuous band having one end secured to the rotor, said support unit including two deflection drums guiding the cover and disposed in relation to a movement direction of the rotor on both ends of the carrier.
15. The linear motor of claim 9, wherein the cover has two cover portions, each of which having one end secured to one end of the carrier and another end secured to the rotor.
16. The linear motor of claim 15, wherein each cover portion is constructed for folding in movement direction of the rotor.
17. The linear motor of claim 9, wherein the cover includes electrical lines for feeding the rotor.
18. The linear motor of claim 9, and further comprising a wiper element for sweeping a surface of the cover.

19. The linear motor of claim 18, wherein the wiper element is secured to the rotor.
20. The linear motor of claim 18, wherein the wiper element is secured stationary relative to the carrier.